

# Andy Babcock

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## QUALIFICATIONS SUMMARY

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- Foundational knowledge of Cadence Virtuoso
  - Foundational knowledge of circuit design in LTSpice
  - Intermediate experience in Matlab, Python, C, and Rust
  - Demonstrated capabilities of circuit design and board programming through labs
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## EDUCATION

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### NORTHERN ARIZONA UNIVERSITY

Studying for a Bachelors in Electrical Engineering on the Lumberjack Scholarship; Unweighted  
GPA: 3.67 / 4.00

*Flagstaff, AZ*  
*Aug 2022–May 2026*

- EE 380: Advanced circuit design, focusing on circuits using discrete and IC elements
  - EE 406: Designed and analyzed switch-mode DC-DC, AC-DC, and DC-AC power converters
  - EE 499: Studying recent trends in wearable technology and designing a wearable anxiety monitor
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## RELEVANT EXPERIENCE

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### CAPSTONE

Building two educational physics robots to be used in K-12 schools

*Flagstaff, AZ*  
*Aug 2025–May 2026*

- Designed the hardware and software for an inverted pendulum robot ([github.com/jtof-dev/robotics-traveling-van-ipr](https://github.com/jtof-dev/robotics-traveling-van-ipr))
- Assisted in the development of a ball beam balance robot ([github.com/jtof-dev/robotics-traveling-van-bbb](https://github.com/jtof-dev/robotics-traveling-van-bbb))
- Wrote reports and gave presentations to meet sponsor and professor requirements and deadlines

### ST LUKE LUTHERAN CHURCH

Software Developer

*Mesa, AZ*  
*May 2023–Aug 2023*

- Contracted by St Luke's ([stlukemesa.com](https://stlukemesa.com)) to develop a companion app to Marriage Encounter ([encounter.org](https://encounter.org))
- Solo-developed the app using Signal as the base ([github.com/jtof-dev/signal-server](https://github.com/jtof-dev/signal-server))
- Compiled, configured, and documented running Signal-Server and Signal-Android from scratch
- Worked in Java and Docker with AWS, Google Cloud, and Redis

### HOMEGOODS

Store Associate who unloaded the truck and assisted customers while shopping

*Flagstaff, AZ*  
*June 2025–Jan 2026*

### SAM'S CLUB

Club Associate who oversaw cart management and assisted members with loading their cars

*Flagstaff, AZ*  
*May 2024–Aug 2024*

### ROD'S ACE HARDWARE

Hardware store associate who worked registers and led the store in donations for a charity drive

*Mesa, AZ*  
*Jun 2022–Aug 2022*

### ANDY'S CUSTARD

Custard shop associate who juggled producing custard, making treats, and serving customers

*Mesa, AZ*  
*May 2021–Oct 2021*

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## INTERESTS

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- I am actively engaged in the competitive Melee (Super Smash Bros Melee) community through competing at local tournaments, helping host events, and running [meleemajors.gg](https://meleemajors.gg) to track large upcoming Melee tournaments
- I enjoy rock climbing and bouldering at my local gyms